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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
097390,299	09/03/99	SASAKI	T 0039-7343-3S

022850 MM91/0611
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EXAMINER

HOBDEN, P

ART UNIT

PAPER NUMBER

2882

DATE MAILED:

06/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)	
	09/390,299	SASAKI, TOMIYA	
	Examiner	Art Unit	
	Pamela R. Hobden	2882	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 May 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- | | |
|---|--|
| 15) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 16) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 17) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 20) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-3,4-6,10-13,15, and16 are rejected under 35 U.S.C. 102(e) as being anticipated by Tybinkowski et al (US 5,982,844A). Tybinkowski et al discloses a gantry (30) of an x-ray computer tomography apparatus comprising an x-ray tube (36), an x-ray detector (40), a rotation ring mounting the x-ray tube and the x-ray detector, a ring frame (54) rotatably supporting the rotation ring, a plurality of main posts tiltably supporting the ring frame (figure 3), and a plurality of props jointing to the main posts obliquely to reinforce the main posts (figure 3). The props are arranged between the two main posts. (figure 3), wherein the base comprises outside frames, inside frames, and crossbars provided inside the frame, the props being connected between the cross bars and the main posts (figure 3), wherein the props are mounted on a central portion of the base (figure 3), the main posts are provided with two props, (figure 2). Each of the props fixed to the base are at an angle of at least 45 degrees. The sub props abut the main posts obliquely, with the sub-props being perpendicular to the props (figure 2). The sub-props are shorter than the props, (figure 2), wherein each of the main posts is provided with two sub-props.

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The gantry comprises electric members including a power source, (46) for generating drive power to rotate the rotation ring and tilt the ring frame, a scan control unit and a transmission unit for externally outputting a signal detected by the detector (column 5 line 30-38), the electric members being arranged in spaces defined by the base, the main posts and the props. (Figure 2)

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 7-9,14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tybinkowski et al. Tybinkowski et al's teachings are as shown above.

Tybinkowski et al fails to disclose a system where the props are in a V shape, where they form a 90 degree angle around the post, or wherein the props abut the main post at a height at least two thirds of the main post, or a gantry wherein the two sub-props are arranged at an angle of 180 degrees around the main post. It would be obvious to one skilled in the art to utilize a variety of prop support configurations, including but not inclusive of multiple props, inverted V shapes, and multiple angle variations, some of which are described in the additional art supplied in the references.

One would be motivated to utilize any of these selections as appropriate by design choice. As long as adequate support is provided to the computed tomography

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system to minimize damping and extraneous movement, location and style of support are not critical to scanning capability of the system.

4. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tybinkowski et al (US 5,982,844). Tybinkowski's teachings are as shown above. Tybinkowski et al fails to specifically disclose a triangle block for reinforcing the main posts. However, Tybinkowski et al discloses a triangular support structure as shown in figure 3. Absent a showing of criticality, functionally, the supports would operate similarly, and could be interchangeable. It would be obvious to one skilled in the art to utilize such a modification, and one would be motivated to utilize a triangular support to enhance and increase the support structure if it were needed.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pamela R. Hobden whose telephone number is (703)-306-5435. The examiner can normally be reached on Monday-Thursday 8:30-6:00, Alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (703)-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-308-7382 for regular communications and (703)-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

prh
June 6, 2001


ROBERT H. KIM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2882